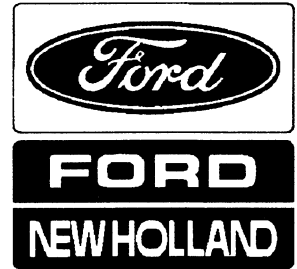


VERSATILE

Operator's Manual



4WD Tractor
Series 2 Model 900

VERSATILE WARRANTY

VERSATILE MANUFACTURING LTD. (VERSATILE) warrants each item of new Versatile equipment sold by it to be free from defects in material and workmanship under normal use and service. The sole obligation of Versatile to the Dealer under this warranty is limited to repairing or replacing, as Versatile may elect, any part or parts that prove in Versatile's judgment to be defective in material or workmanship within one year after delivery to the original purchaser, under normal farm use. Such a defective part or parts will be replaced or repaired ONLY TO THE ORIGINAL PURCHASER, such repair or replacement will be done at the location of the selling Versatile Dealer. Purchaser must give written notice to the Authorized Dealer from whom equipment was purchased of any claimed defect and the Dealer will have a reasonable time under the circumstances then existing to repair or replace said part or parts found to be defective. It is understood that if there is any delay in giving such written notice wherein it is possible that the alleged defective part may have caused damage or defects to other parts of the equipment, then this warranty shall not cover the repairs necessitated therein.

NOTE: THE SOLE REMEDY OF THE PURCHASER FOR BREACH OF THIS WARRANTY IS THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.

This warranty does not extend to the engine or tires on Versatile tractors which are manufactured by others, and which carry separate warranties from said manufacturers. There are no representations, warranties, or conditions express or implied, statutory or otherwise, except those herein contained and no agreement collateral otherwise, except those herein contained and no agreement collateral hereto shall be binding upon either party unless in writing hereon or attached hereto, signed by purchaser and accepted by Versatile at its head office.

Versatile's liability under this warranty is limited to the repairing or replacing of parts, and Versatile shall in no event be liable to the Purchaser for consequential damages or loss of profits on crops sustained by it as a result of any defect in material or workmanship on any of the equipment covered by this warranty.

Versatile equipment is warranted for agricultural use only. This Warranty does not cover industrial application. ALTERING, MODIFYING OR ADDING ADDITIONAL EQUIPMENT WHICH IS NOT APPROVED FOR INSTALLATION ON VERSATILE EQUIPMENT BY THE COMPANY WILL VOID THE WARRANTY.

All Warranties are subject to the legislation of the state or province in which the machine is sold.

***THERE WILL BE NO DEVIATION FROM THE PROCEDURE AS OUTLINED*.**

NOTE: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE BY VERSATILE OR ITS AUTHORIZED DEALER, REGARDING VERSATILE EQUIPMENT EXCEPT THE WARRANTY AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP EXPRESSED HEREIN. NO PERSON IS AUTHORIZED TO BIND VERSATILE FOR ANY OTHER WARRANTY WHATSOEVER.

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INTRODUCTION

We at VERSATILE Manufacturing Ltd. are pleased that you have chosen a VERSATILE Four-Wheel drive Tractor for your farming operation. The founders of VERSATILE have pioneered the development of the four-wheel drive tractor for agricultural use. It has evolved through the ideas and suggestions which have been submitted to us by customers such as yourself.

We ask that you study this manual and adopt the preventative maintenance program outlined in it. Preventative maintenance will provide you with trouble free service for years to come. The suggested schedule has been designed to meet most operating conditions. It may be necessary to adjust your maintenance program to suit your specific operating conditions and to perform the maintenance more often than outlined.

As the purchaser of a VERSATILE Four-Wheel Drive Tractor you have also received a Cummins' Operation and Maintenance Manual. We would ask that for maintenance on the engine which is not covered by our tractor manual, you follow the instructions outlined in the Cummins manual. Before placing the tractor in service become familiar with all the procedures described in both the engine manual and the tractor manual.

Your dealer is factory-trained to provide you with genuine parts and professional repair service. Consult him regarding your service needs. He is working for you.

SERIAL NUMBER LOCATIONS

IMPORTANT:

When ordering parts, state the serial number of the tractor and/or engine, whichever applies. The tractor serial number is stamped on the rear of the front frame section and also appears as a metal tag near the clutch pedal in the cab. The engine (Cummins) serial is on a metal tag located on the rear of the top of the engine between the cylinder banks.

Write your model and serial number information here:

TRACTOR

MODEL _____

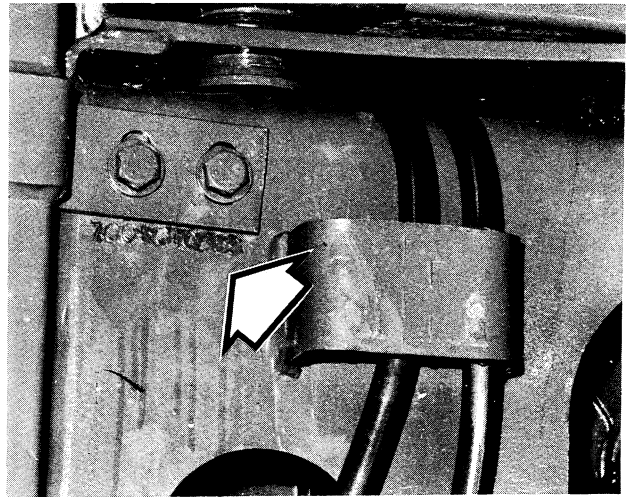
SERIAL _____

ENGINE

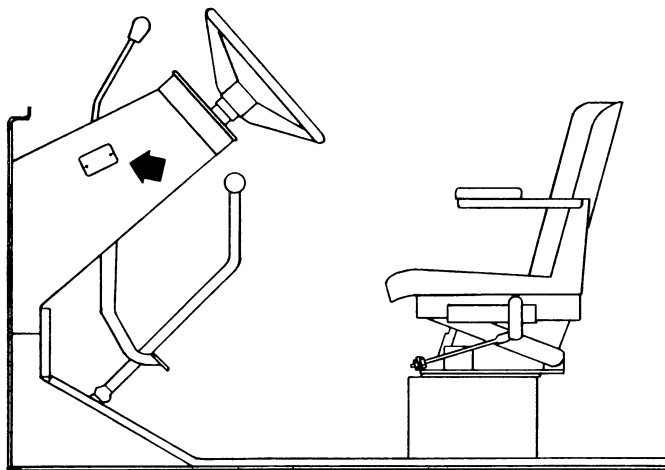
MAKE **CUMMINS**

MODEL _____

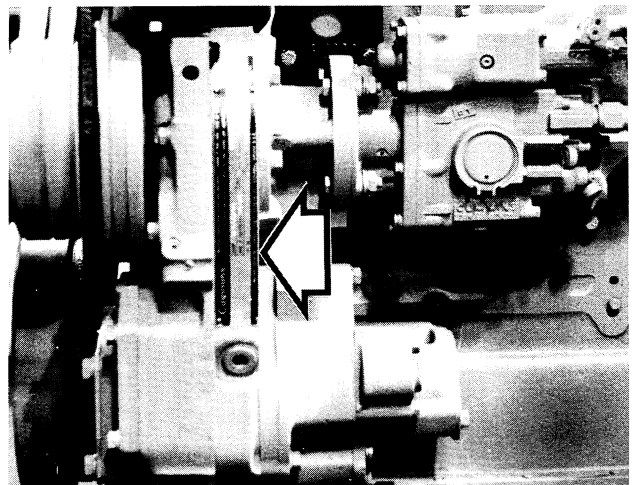
SERIAL _____



Frame Stamp



Cab Plate



SPECIFICATIONS

Horsepower:

- Engine maximum Brake Horsepower at 2400 rpm -- 300 (223,5 kW)

Dimensions:

- Wheel Base -- 130 in. (3,30 m)
- Length Overall -- 253 in. (6,43 m)
- Height Overall -- 130 in. (3,30 m) to top of stack*
- Height to Drawbar -- 18 in. (457 mm)
- Height to Differential -- 23 in. (584 mm)
- Height to Frame -- 22 in. (559 mm)
- Width -- (See Tire Size)

Weight:

- Maximum Operating Weight--28,000 lb.(12,700 kg)
- Recommended Operating Weights Range (most applications)
 - 26,000 - 27,500 lbs.
 - (11,790 - 12,470 kg)

Tire Size and Tractor Width:

18.4 x 38 DUALS

- Between Tread Centers
 - Inner Tires -- 72 in. (1,83 m)
 - Outer Tires -- 118 in. (3,00 m)
- Tractor Width (outsides of tires)
 - Inner Tires -- 90.5 in. (2,30 m)
 - Outer Tires -- 137 in. (3,48 m)

20.8 x 38 DUALS

- Between Tread Centers
 - Inner Tires -- 72 in. (1,83 m)
 - Outer Tires -- 122 in. (3,10 m)
- Tractor Width (outsides of tires)
 - Inner Tires -- 92.75 in. (2,36 m)
 - Outer Tires -- 143 in. (3,63 m)

24.5 x 32 SINGLES

- Between Tread Centers -- 72 in. (1,83 m)
- Tractor Width (outsides of tires) -- 97.25 in. (2,47 m)

30.5 x 32 SINGLES

- Between Tread Centers -- 79.12 in. (2,10 m)
- Tractor Width (outsides of tires) -- 109.72 in. (2,79 m)

Engine Specifications: (naturally aspirated)

- Cummins V-903 V8 Diesel
- Maximum torque -- 706 ft-lb at 1800 rpm (957 Nm)
- Compression ratio -- 16.5:1
- Fan -- 28 in. (711 mm), six-blade sucker type.
- Bore, 5.50 x Stroke, 4.75 in. (139,7 x 120,7).
- Displacement -- 903 cu. in. (14,8 l).
- Idle Speed - 1000 rpm.
- Full - load governed speed - 2400 rpm.
- Full - throttle no-load speed -- 2550 - 2640 rpm.
- Oil cooler and full-flow oil filter with bypass oil conditioner. Oil pan angularity capability - 30° incline.
- Radiator -- 930 sq. in. (6000 cm²), 7 fins per in. (2.8 fins per cm), four-row core, independent surge tank.
- Exhaust -- dual exhaust, rubber-mounted.

Specifications

Engine Specifications (naturally aspirated) con't.

- Air cleaner -- triphase, dry type dual safety element, exhaust aspirated, restriction indication gauge on instrument panel.

Transmission:

- Tapered roller bearings 12-speed, fully-constant mesh.
- Four shafts, 3 in. (76,2 mm) diameter. Pressure lubricated (4 to 15 psi, 28 to 105 kPa).
- Range and Shift levers.
- Helical forward gears, spur reverse gears.
- SPEEDS AT 2400 RPM WITH 24.5 x 32 TIRES 31.5 in. (800 mm) loaded radius.

RANGE	1	2	3	4
1st gear	2.5 mph	3.0 mph	3.5 mph	4.0 mph
2nd	4.6	5.5	6.1	7.3
3rd	8.9	10.7	11.9	14.3
REVERSE	3.3	3.9	4.4	5.2

(km/h = mph x 1.6)

Axles:

- Spiral-bevel double-reduction differentials with outboard planetary final drives.

Brakes:

- Road Brake -- drive-line mounted 15 in. (381 mm). SELF-ADJUSTING disc type. Independent of tractor hydraulic system.
- Parking Brake -- mechanically actuated caliper.

Clutch:

- Dana-Spicer® , 14 in. (356 mm), SELF-ADJUSTING two-plate dry type with ceramic button lining, spring-loaded cushion hub discs. Mechanically actuated by foot pedal.

Steering:

- Articulated frame, 42° left or right. Fully hydrostatic actuation via two, 3 in. (76 mm) x 16.5 in. (419 mm) stroke cylinders.

Drawbar:

- Swinging clevis type with wear block. One and one-half in. (38.1 mm) pin with locking lever. Replaceable hardened bushings. Height -- 18 in. (457 mm); to top of main member.

Frame:

- Articulated via two ball bushings between front and sub-frame.
- Artrication capability -- 42°.
- Oscillation capability -- 15°.

Electrical:

- Two, 204-Amp-hour batteries. Negative ground. 12-Volt, 75-Amp brushless alternator with built-in voltage regulator. Automatic reset circuit breakers and replaceable fuses, six working lamps two red tail lamps and two warning flashers.

Hydraulics:

- Open center. Nominal 26.9 U.S., 19.1 Imp. Gpm; (1,70 l/s for steering. Nominal 8.0 to 26.9 U.S., 6.7 to 22.4 Imp. gpm. (0,50 to 1,70 l/s \pm 10%) for implements (flow is adjustable from inside the cab).
- Filters -- reusable suction filter on suction line, one replaceable 33 micron filter on return oil line.
- Cooler -- finned cooler mounted in front of radiator. Swings down for cleaning.
- Implement control -- built-in flow control. Relief valve (tank mounted) set at 2300 + 50 psi (15.86 MPa + 340 kPa). Two four-way self-cancelling spools set at 2100 + 0 - 100 psi (14,48 MPa + 0 - 690 kPa). One four-way spool with float position.
- Couplers -- Pioneer® 8200 Series, push-to-connect-under-pressure type. 7010-4 male gold colored tips.

Cab:

- Fully isolated module on six rubber mounts. Roll Over Protective Structure (ROPS). Noise insulated. Pressurized and Air Conditioned. Tinted glass. Bostrom® Seat. Lap type seat belts.

Specifications

Fluid Capacities:

- Fuel -- 185 U.S. Gal, 155 Imp Gal (700 l)
- Engine Lube Oil -- 34 U.S. Qt, 28.3 Imp Qt (32,2 l)
- Coolant -- 53 U.S. Qt, 44 Imp Qt (50,2 l)
- Hydraulic System -- 74.5 U.S. Qt, 62 Imp Qt (70,5 l)
- Transmission -- 21.5 U.S. Qt, 17.9 Imp Qt (20,3 l)
- Axle with Planetaries -- 28 U.S. Qt, 23.5 Imp Qt (26,5 l)

Instruments:

• Tachometer, hour meter, voltmeter, air restriction, fuel gauge, engine temperature gauge, oil pressure gauge, transmission oil light, key ignition, starter button, manual safety-switch override button, hazard warning flasher with turn signals, light switch, wiper switch, Ether cold start control, parking brake light, air conditioner warning lights, alternator warning light.

Air Conditioner:

• Front-mounted Condensor. Engine-mounted Compressor. Ceiling mounted Evaporator. Temperature and Fan-Speed controls. Self-cleaning OUTSIDE cab air filter ejects dust when cab door is closed firmly and by gravity.

Heater:

• Ceiling mounted core. Variable flow rate. Windshield defrosting Louver.

Radio:

• Solid state. Five push buttons with volume and tone controls. Spring mounted telescoping antenna.

Options:

- Three point hitch (Category III).
- Tire Sizes -- 18.4 x 38 / 20.8 x 38 DUALS
-- 24.5 x 32 / 30.5 x 32 SINGLES
- Rear Fenders.

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